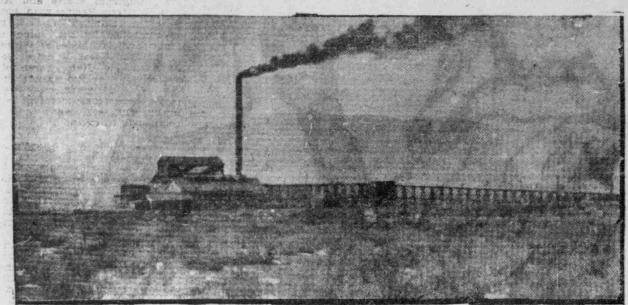
HEL IN HOUSE SALES AND A STREET AND ASSESSED ASSESSED.

Big Development of the Cactus Mine



and Trestle Approach. View From the East.

Samuel Newhouse has been a prom-Inent figure in Utah mining for the past ten years. He has been peculiarly successful in starting with the bare ground for a foundation, and independent of the element of luck, building enormous and profitable enterprises. The large bodies of copper sulphides were found in the Highland Boy mine at Bingham after the bard prodicted them a profitable with the bare ground for the red metal, and sometimes much greater values, accompanied with gold values characteristic of that camp.

This phase of the mine is worked by a series of five tunnels and from it there is being taken 300 tons of ore daily which is reduced in the smelters.

The Boston Consolidated ground is a mine in a double sense of the word. There is an abundance of copper ore in vein matter carrying about 9 per cent of the red metal, and sometimes much greater values, accompanied with gold values characteristic of that camp.

This phase of the mine is worked by a series of five tunnels and from it there is being taken 300 tons of ore daily which is reduced in the smelters.

Mr. Newhouse recently stated that after he had predicted them. The smelter for their treatment, the first

copper smelter of consequence in the state, was built on his advice. The Boston Consolidated, adjacent to the Highland Boy property, was taken by him when it was yet a prospect, and not generally considered a good pros-pect at that, and under his manage-ment after several years of work it has the first magnitude with plans already perfected for taking care of its values that will keep it in the lead regardless of the growth of other mines.

Cactus in Beaver County.

The Cactus mine, in Beaver county, ow the nucleus of the town of New-ouse, lay unprofitable for years after its values had been ascertained, its only mission, seemingly, being to disappoint the ambitious and wreck the fortunes of its successive unsuccessful promo-tors. Less than five years ago Mr. Newhouse obtained an option on this apparent Golgotha and commenced ilding successes where failures had held full sway. The enterprise is now rounded out. A plaza, oasis like, covered with bluegrass and flowers is the central figure in a community of homes. A railroad has been built to it across a untry so barren that it was avoided by riders of the range. The hum of a colossal mill has been substituted for the howl of the coyote.

Brought Under Control.

jects. Mr. Newhouse is also operating in Canada, Montana, Idaho and Colorado, but this story is intended to deal more particularly of the Boston Con-

The Boston Consolidated ground is a | The porphyry mining is to be operated

daily which is reduced in the smelters in the valley below. The means of transportation from the mine is the Copper Belt railroad. This output, it is said, can be increased to 750 tons of said, can be mereased to production be maintained without overtaxing the capacity of the mine. The enormity of these bodies can best be realized when it is known that one of them has been opened for 10 feet and cross-cell known to those who have attempted their extraction. That the mine is now proposition is the copper-bearing porphysics of which there is in extent a miles of which there is in extent a miles of the mine of riches. These por-physics of these ports are the points of greatest interest.

The extent of the great ore deposits in the Cactus mine and their values of \$2 per cent. The Count on the time is now has over \$100,000 and become that the low-grade due the treasury and dividend-paying on a be concentrated at its 500-101 plant. The Chumbus now has over \$100,000 and become that the low-grade due the treasury and dividend-paying on a be concentrated at a profit, has completed at a profit and their values of \$2 per cent.

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shares at a value of \$100 a share.

Prospects at the Cactus.

famous Horn Silver mine. It is reached by the San Pedro, Los Angeles & Salt Lake railroad. The ore is brought

from the mine by electric motor cars.

It is then brought to the mill which has a daily capacity of 750 tons, a dis-

tance of over two miles by the New-

house, Copper Gulch & Sevier Lake

railway, an auxiliary concern to the

mine and smelter corporations. The

within the past year. In that time twelve tunnels with an aggregate length of about a mile and a half have been driven, the work still continuing, and the results have surpassed the most sanguine expectations.

Great Bodies of Ore.

Assays taken daily as the work has mine cars are run into a large tube progressed for the past three months, which revolves and unloads them. The have shown 3 per cent copper from one part of the country, and the values tunnel. The mill structure is of steel taken from another part have ranged 400 by 100 feet provided with the best from 3 to 5 per cent. An encouraging economic means for concentration. feature is that the best values are found on the highest ground, giving from 600 to 700 feet vertical distance for tanks and classifiers. The power A system of waterworks has been established into which water is brought by a pipe line from the mountainside across the desert eight miles away. The stubborn old prospect, the Cactus with spines, has been subdued and forced to give up its riches. These are a part of his work in Utah only. He is only managing director of the erratic O. K. mine in Beaver county and other properties belonging to the Majestic company, and if they possess merit, he and his efficient staff will doubtless repeat the successes accomplished in other projects. Mr. Newhouse is also operating in Canada, Montana, Idaho and Colothan 100 per cent premium. The stock amount of ore was blocked out to of the company, which sold at \$6 and ply the mill with 700 tons a day for \$7 a share, now brings about \$25 a fifteen years, but since that time the solidated and the Newhouse Mines & share. The company is now complet- ore reserve has been substantially in-Smelter corporation which operates the ig an experimental concentrator plant crease. Lafayette Hanchett is gen-Cactus mine and mill at Newhouse on its grounds to try out the best eral manager of the Newhouse staff methods for the reduction of this ore. and A. J. Bettles is metallurgist.

recently been completed. The under-ground workings, the basis of which is tunnel work with two outlets, one at tunnel work with two outlets, one at the office and shops and the other at the mill, aggregate some 15,000 feet, or nearly three miles.

The trackage system is complete and hoist stations have been installed wher-ever needed at the winzes in the mine. Eight ore bodies have so far been encountered and from the last one dis-covered over \$200,000 has been taken out

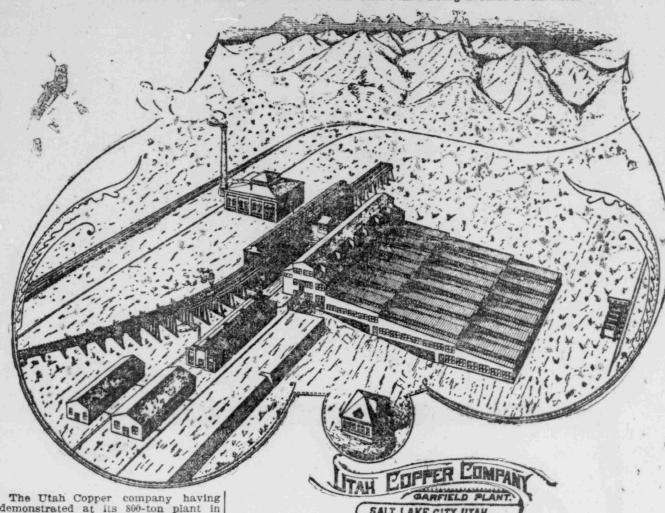
covered over \$200,000 has been taken out in its development within the last three months. This body is at what is known as No. 3 shaft, and is in 1,500 feet from the mouth of the main tunnel. It occupies almost a horizontal position with a horizontal measurement of 150x25 feet where cut by the tunnel. It has now been followed 220 feet down where its cross dimension has increased to thirty-three feet. At this depth no sign is present of the ore giving out and work is being continued to determine the depth is termine its depth.

This body averages in values about

\$65 per ton in copper, silver, lead and gold. At the walls ore is found in streaks that frequently carry many hundreds of ounces of silver to the ton. But little ore has been taken from this body above the tunnel level, although the vertical depth is probably 700 feet. The other bodies have been the extraction being chiefly as a result of development. One of these is 45x15 feet, another three-foot fissure has been followed 100 feet each way, all in ore, another, not developed, is smaller, but very rich in silver Another known as the Brain fissure shows from known as the Brain fissure shows from two and one-half to fifteen feet of ore a distance of 600 feet. Two others at intersections of fissures and contacts show respectively fifteen feet of lead ore and eight feet of ore rich in copper. Then in the Howland tunnel that outputs at teh mill is a forty-foot body of Mr. Newhouse recently stated that the Boston Con. is capable of earning ore carrying about \$9.60 to the ton, and it is from this body that the mill an 8 per cent annual dividend on the is supplied. The work of the mill during the year showed that the values of ore milled averaged \$9.63 per ton

Utah Copper Company's Immense Enterprise

First 3,000 Ton Unit Smelter of the Four-Unit Plant Being Erected at Garfield.



field, where the large smelter is being erected. Garfield is on the south shore of Salt lake, on the west side of the Oquirrh range, and is connected with the mines at Bingham by a branch of the Rio Grande Western railroad which was begun and completed within the last six months. Garfieled is also on the main line of the San Pedro, Los Angeles & Salt Lake railroad.

The main structure of these units will

be 300x508 feet each. The equipment will be of the most modern and approved machinery in every department. The mine of the Utah Copper company comprises over 200 acres, which have been explored by from ten to twelve miles of underground workings, and tested by a system of drilling to great depth, and it has demonstrated that the tract contains many millions of tons of ore, that it is in fact almost inexhausti-ble. The entire body, a porphyry, car-ries better than 2 per cent copper, with

Arrangements are being made for working this body or tract by steam shovels and open cut methods which will reduce to a minimum the cost of production. D. C. Jackling is manager of this company, Frank Janney is mill superintendent and George O. Bradley engineer, is in charge of the mill con-

"What I would like to see all over the theatrical world is a school of practice for the acting of Shakespearean drama, without costumes and without scenery," said Henry Arthur Jones, the English dramatist, the other day, Such a plan is now under way in England. My idea of a national theater is to reproduce a repertoire of old and modern plays with short runs. I wish I could influence the playgoers here to read public plays. The idea serves to get an audience better acquainted with the stage production and incites an introduction to the drama. I got a glimpse of Maude Adams the other night. I have never seen her act before. She is the sweetest little actress I have ever seen. She is simplicity itself. England needs a few women on the stage like Maude



Daly-West and Quincy.

Daly-West One of Utah's Greatest Mines

The Daly-West mine at Park City, owner also of the Quincy mine, ad-

Columbus Con. Opens New Reserves

Columbus Con. Tunnel Building.

Columbus Con. Hotel,

the ground for a better or more interby the operations of the Columbus Con-solidated Mining company at Alta. The camp is situated at the head of Little Cottonwood canyon and extends to the summit of the Wasatch range and is about twenty-eight miles from Salt Lake City. It is a historic place, the home of the Emma and Flagstaff and other almost equally famous mines, and when silver was high in the early seventies it is estimated that nearly \$40,-000,000 was produced by that district.

the extent of complete abandonment. Its revival has been due largely to the work of the Jacobson brothers, Tony Jacobson, manager and A. O. Jacobson, superintendent, of the Columbus mine.

As mine prospectors some four years ago they secured an option on a deserted property. They worked this property, enlarged the holdings which now exceeds 200 acres, financed the en-terprise and the result is that today the Columbus' is a mine of the first magnitude with a complete equipment, and is in a position to respond with almost any tonnage that may be called

The equipment consists of a modern 0-ton concentrator plant for handling the low-grade ores, a poorer plant four miles down the capyon from which sectricity is distributed for power, heat and light, and for the mine and

Nowhere in Utah can there be found | substantially finished. It is provided each floor. There are a number of with an office for the company and private bath rooms, and a large plunge hotel, a reading room for the men. bath pool is situated in the basement. Hot and cold water are furnished on Ore bins of 1,000 tons capacity have of a series of cave-ins along the tunnel

Ohio Copper on Profitable Basis

ties at Bingham include a mine and mine cars to the tunnel's mouth. mill in successful operation. The mine Later it suffered decadence almost to before falling into the hands of the past year, and the results have fully present management, was known as met the expectations of the managethee Columbia, and is centrally located ment. On the 400-foot level a cross-cut on main Bingham canyon, in the vici- has been run to the south a distance of

> jacent to the Rio Grande Western rail- soon cut the What-Cheer vein which, road station.

The ore is brought from the mine to exceedingly high grade. the mill over the Copper Belt railway. The mill is a recent acquisition, and The officers of the company own prac-

The Ohio Copper company's proper- directly on the railroad cars from the The development work of the Ohio nity of the holdings of the United 450 feet. Through the porphyry belt, States, Boston Con and Utah Copper and for a greater part of this distance, good copper values have been found. The mill and company' office are ad- This work is being continued and will

on the upper levels, produces ore of

The capacity of the concentrator has with it valuable water rights were ob- tically all of its stock. H. G. Catrow been doubled within the first year and tained. The mine is now paying the is president, A. F. Bettles vice presinow 200 tons of ore pass through the company, which is a close corporation, dent, and Henry Catrow secretary-crushers and over the tables every profits to the amount of about \$10,000 treasurer and managing director. twenty-four hours. In addition to the a month. In the extent of its hold- Werner Zigler is general superintendconcentrates shipments of crude ore ings, the size of its ore bodies and the ent of the mine and mill.

are constantly made and some of this values they carry, and the favorable The directorate follows: R. output is exceedingly high in copper, location of both mine and mill, the which is the chief metallic product of Ohio bids well to size up with the larg- Bettles, Salt Lake; N. J. Catrow, Miamthe mine. The material concentrated est mine of Greater Bingham. With isburg, Ohio; H. G. Catrow, Miamis-A new three-story boarding house added to the former building for the same purpose forms in reality a first-class modern hotel capable of housing and feeding upward of 125 men. It is

to a standstill. Recently, however, the drain tunnel has been opened, the camp is being unwatered and the work of making connection with the Daly-West and making deeper explorations will be resumed. This improvement will both increase and cheapen the production o fthe mine. The present officers of the company company has been extensive during the are: President, Jacob E. Bamberger; vice president, William H. Dickson; secretary, Josiah Barnett; treasurer, W. S. McCornick; who, with Albert Watts of Boston and Lazard Kahn of Hamilton, O., constitute the board of directors. Ernest Bamberger serves the company as general manager, F. W. Sherman is mill superintendent and

of the great mines of Utah. It pos-

sesses a large acreage, in which ex-

months, and at the same time gradu-

ity respond to the calls on the mine.

level, or 600 feet lower than the mine

Jasper A. McCaskel, mine superintend-



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